

Application No.: 10/534,142

Docket No.: SONYJP 3.3-1041

IN THE ABSTRACT

Please replace the Abstract with the attached new Abstract.

ABSTRACT OF THE DISCLOSURE

A switching power supply circuit includes a plurality of switching converters, each of which includes a partial resonance voltage circuit combined with a current resonance type switching converter using a half-bridge connection system. Changeover control is performed such that a rectification circuit serves as a voltage doubler rectification circuit at an AC voltage less than or equal to 150V, but serves as a full-wave rectification circuit at an AC voltage greater than or equal to 150V. The voltage output of the converters is fed back to a rectification current path by a power factor improving transformer, and the rectification current is interrupted by means of a rectification diode to expand the conduction angle of the AC input current. A DC switch circuit inserted in the rectification current path is switched between on and off conditions in response to the input of a predetermined starting signal to thereby control the starting order of the secondary side DC output voltage.